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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/820,254

04/08/2004

Carl Bretmersky

NOR-1164

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10/03/2005

WOOD, HERRON & EVANS, LLP (NORDSON)

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EXAMINER

VY, HUNG T

ART UNIT

PAPER NUMBER

2821

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/820,254

Applicant(s)

BRETMERSKY ET AL.

Examiner

Hung T. Vy

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 08 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/8/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### **Acknowledges**

#### ***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 4/08/2004. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### **Specification**

2. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### **Claim Rejections - 35 USC § 102**

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 9 are rejected under 35 U. S. C. § 102 (b) as being anticipated by Smith et al. (U.S. Patent No. 6,388,226).

With respect to claims 1 and 9, Smith et al. discloses a method of preventing a high voltage power supply and a radiation generating system for treating a coating on a

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substrate, comprising: a microwave generator operable to generate microwave radiation (see column 2, line 27), a lamp associated with said microwave generator for receiving microwave radiation therefrom (See column 2, line 25-30), a high voltage power supply (See column 11, line 15-17) adapted to be connected to an AC voltage source and providing high voltage power to said microwave generator (14), a current limiting device (see column 12, line 19) connected between said high voltage power supply (256) and said microwave generator (14), a fault detector (350) connected to said high voltage power supply (256) for providing an error signal in response to an excessive current being supplied to said microwave generator, and a control (355) operative to interrupt a connection of AC power to said high voltage power supply in response to said error signal by switching (26)(See fig. 8-10).

### **Claim Rejections - 35 U.S.C. § 103**

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 9 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Pratt et al. (U.S. Patent No. 5,642,268) in view of the Applicant Admitted prior Art (AAPA).

With respect to claims 1 and 9-12, Pratt et al. discloses a method of preventing a high voltage power supply and a radiation generating system for treating a coating on a substrate, comprising: a microwave generator operable to generate microwave radiation (See column 4, line 8-10), it is inherent that Pratt et al. disclose a lamp associated with said microwave generator for receiving microwave radiation therefrom because Pratt et al. disclose the magnetron load (102)(See fig. 3) and microwave generator (See column 4, line 8-10), a high voltage power supply (108)(See column 7, line 18-20) adapted to be connected to an AC voltage source (92) and providing high voltage power to said microwave generator (102), a fault detector (114 and 116) connected to said high voltage power supply (108) for providing an error signal in response to an excessive current being supplied to said microwave generator (102), and a control (114, 116 and 100) operative to interrupt a connection of AC power to said high voltage power supply in response to said error signal by switching (100)(See fig. 3). Pratt et al. does not disclose a current limiting device connected between said high voltage power supply and said microwave generator. However, AAPA disclose the limiting device (see column 3, line 5-10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to arranging a current limiting device between said high voltage power supply and said microwave generator to protect the magnetron when the current go to high since such an arrangement of a limiting device for stated purpose has been well known in the art as evident by the teach of AAPA (see column 3, line 5-10).

With respect to claims 3-5, Pratt et al. discloses the a current sensor (116) and a fault circuit (152) connected to said current sensor and producing said error signal (see

column 7, line 25-55), one input connected to said feedback voltage (114), and second input connected to a voltage reference (predetermined level)(See column 7, line 35-37).

With respect to claims 7-8, Pratt et al. discloses high voltage power supply comprises a high voltage transformer (94) having a primary side adapted to be coupled to an AC voltage source (92) and a secondary side providing high voltage power, and a voltage doublers (162) connected to said secondary side of said high voltage transformer (94), and said fault detector comprises a current sensor (116) and a fault circuit connected to said current sensor and producing said error signal (See fig. 4).

5. Claim 2 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Pratt et al. (U.S. Patent No. 5,642,268) in view of the Applicant Admitted prior Art (AAPA) as applied to claim 1 above, and further in view of Hirosh Ando (JP361032339).

Regarding claim 2, Pratt et al. discloses all the limitation of claimed invention recited in claim 1 except for a current limiting resistance. However, Hirosh Ando discloses a current limiting resistance 11, 12 9 (See fig. 1). It would be obvious to one of ordinary skill in art at the time the invention was made to implement the device of Pratt et al. by adding a current limiting resistance since such having a current limiting resistance in order to protect the device for the stated purpose has been well known in the art as evidenced by the teaching of Hirosh Ando (See fig. 1 and constitution).

6. Claim 6 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Pratt et al. (U.S. Patent No. 5,642,268) in view of the Applicant Admitted prior Art (AAPA) as applied to claim 1 above, and further in view of Nagai et al. (U.S. Patent No. 6,028,415).

Regarding claim 6, Pratt et al. discloses all the limitation of claimed invention recited in claim 3 except for a zener diode. However, Nagai et al. discloses a zener diode (td1)(see fig. 4). It would be obvious to one of ordinary skill in art at the time the invention was made to implement the device of Pratt et al. by arranging a zener diode connects to the comparator in order to generating a detection signal corresponding to the comparison since such arranging a zener diode for the stated purpose has been well known in the art as evidenced by the teaching of Nagai et al. (See abstract).

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Vy whose telephone number is 571-2721954. The examiner can normally be reached on 8.30am - 5.30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 11, 2005.

  
**WILSON LEE**  
**PRIMARY EXAMINER**